

What Is Claimed Is:

1. Digital printer or copier machine (1) for the single-sided or double-sided printing of a substrate (11) using at least one toner, with at least one fixing device (3) for fixing the toner onto the substrate (11), whereby the fixing
5 device (3) has at least one heating device for fusing the toner, and with at least one transport device (17), in order to supply the substrate (11) to the heating device, to guide it past the heating device and/or to further transport it from the heating device, whereby the transport device (17) has at least one suction belt (19) that has a number of through-passage openings (21) and that can be impinged with a
10 vacuum, characterized in that the suction belt (19) is constructed as a mesh.
2. Printer or copier machine according to claim 1, characterized in that the entire cross-section flow-through area of the through-passage openings (21) is greater, preferably markedly greater than the entire area of the stays between the through-passage openings (21).
- 15 3. Printer or copier machine according to claim 1, characterized in that the through-passage openings (21) each have a diameter that is less than 1.0 mm.
4. Printer or copier machine according to claim 1, characterized in that at least the surface of the suction belt (19) coming into
20 contact with the substrate (11) is coated with a separating agent
5. Printer or copier machine according to claim 1, characterized in that at least the surface of the suction belt (19) coming into contact with the substrate (11) is coated with a material that has a low surface energy.
- 25 6. Printer or copier machine according to claim 1, characterized in that the adhesion of the substrate on the suction belt (19) is done by electrostatic charging of the substrate and/or the suction belt and/or as a result of friction between the substrate and the suction belt.

7. Printer or copier machine according to claim 4,
characterized in that the suction belt is coated with a thin layer of a separating
agent, in particular, with silicone oil.
8. Printer or copier machine according to claim 1,
5 characterized by at least one cooling device for cooling the suction belt.
9. Printer or copier machine according to claim 8,
characterized in that the cooling device is arranged on the side of the suction belt
(19) lying opposite the substrate (11).
10. Printer or copier machine according to claim 1,
10 characterized in that the flat side of the suction belt (19) coming into contact with
the substrate (11) has a defined surface roughness that is selected depending on a
desired gloss of the fixed toner.
11. Printer or copier machine according to claim 1,
characterized in that the heating device has at least one microwave resonator (5,7)
15 through which the suction belt (19) is guided.
12. Printer or copier machine according to claim 1,
characterized in that the suction belt (19) is essentially made out of a fabric.
13. Printer or copier machine according to claim 1,
characterized in that the suction belt (19) is manufactured so that it is an endless
20 closed loop.
14. Printer or copier machine according to claim 1,
characterized in that the suction belt (19) is essentially made out of polyester.
15. Printer or copier machine according to claim 12,
characterized in that the suction belt (19) has at least one anti-static element.
16. Printer or copier machine according to claims 15,
characterized in that the anti-static element is integrated as yarn into the fabric.

17. Printer or copier machine according to claim 12, characterized in that the suction belt (19) has at least one stiffening element.

18. Printer or copier machine according to claim 17, characterized in that the stiffening element is a fusing thread.

5 19. Printer or copier machine according to claim 1, characterized in that the suction belt (19) has at least one guide element running in the rotation direction.

10 20. Printer or copier machine according to claim 19, characterized in that as guide elements, raised guide ribs (63) are provided running along the edge undersides of the suction belt (19).

21. Printer or copier machine according to claim 20, characterized in that the guide ribs (63) can be brought into mesh with guide grooves in a drive shaft (57) for the suction belt (19).

15 22. Printer or copier machine according to claim 1, characterized in that the heating device contains at least one heating roller, under which the suction belt (19) can be moved faster than at the rotational unrolling speed of the heating roller, such that the heating roller can be pressed onto the substrate (11) carrying the toner, and the substrate (11) is to be driven in such a way by its unrolling movement in the transport direction (9) of the suction belt
20 (19), that it is in the position where the substrate (11) lags behind and/or runs behind the suction belt (19) at a lower relative speed.